Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-16. (Cancelled)

17. (Currently Amended) A cast aluminium aluminum alloy, wherein the alloy comprises 1.0 - 8.0 3.0-6.0 % by weight magnesium (Mg),

> 1.0 - 4.0 % by weight silicon (Si),

0.01 - < 0.5 % by weight scandium (Sc),

0.005 - 0.2 % by weight titanium (Ti),

 $0.001 - < 0.1 \ 0.005$ % by weight zinc (Zn)

0 - 0.5 % by weight of <u>at least one</u> [[an]] element or an element group selected from the group consisting of zirconium (Zr), hafnium (Hf), molybdenum (Mo), terbium (Tb), niobium (Nb), gadolinium (Gd), erbium (Er) and vanadium (V),

0 - 0.8 % by weight manganese (Mn),

0 - 0.3 % by weight chromium (Cr),

0 - 1.0 % by weight copper (Cu),

0 - 0.6 % by weight iron (Fe),

0 - 0.004 % by weight beryllium (Be),

the remainder being aluminum,

provided that the total amount of impurities is not more than 0.5 % by weight and provided that no single impurity is present in an amount of more than 0.1 % by weight.

18-19. (Cancelled)

20. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 1.1 - 4.0 % by weight silicon (Si).

- 21. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 1.1 3.0 % by weight silicon (Si).
- 22. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.01 0.45 % by weight scandium (Sc).
- 23. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.015 0.4 % by weight scandium (Sc).
- 24. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.01 0.2 % by weight titanium (Ti).
- 25. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.05 0.15 % by weight titanium (Ti).
- 26. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.01 0.3 % by weight zirconium (Zr).
- 27. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.05 0.1 % by weight zirconium (Zr).
- 28. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains at least 0.001 % by weight vanadium (V).
- 29. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains at least 0.008 % by weight vanadium (V).
- 30. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains at least 0.001 % by weight gadolinium (Gd).
- 31. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.001 0.3 % by weight chromium (Cr).

- 32. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.0015 0.2 % by weight chromium (Cr).
- 33. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.001 1.0 % by weight copper (Cu).
- 34. (Currently Amended) The cast aluminium aluminium alloy of claim 17, wherein the alloy contains 0.5 1.0 % by weight copper (Cu).
- 35. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.001 0.05 % by weight zinc (Zn).
- 36. (Currently Amended) The cast aluminium aluminium alloy according to claim 17, wherein the alloy contains 0.05 0.6 % by weight iron (Fe).
- 37. (Currently Amended) The cast aluminium aluminum alloy according to claim 17, wherein the alloy contains 0.05 0.2 % by weight iron (Fe).
- 38. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains maximally 0.15 % by weight manganese (Mn).
- 39. (Currently Amended) The cast aluminium aluminum alloy of claim 17, wherein the alloy contains 0.4 0.8 % by weight manganese (Mn).
- 40. (Withdrawn, Previously Presented) A method of producing a cast part said method comprising:

casting a part comprising the alloy of claim 17 and heat treating the part at a temperature of from 250 - 400°C to produce a thermally stressed cast part.

41. (Withdrawn, Previously Presented) The method of claim 40, wherein said casting

step involves diecasting, sand casting, permanent mold casting, thixocasting, rheocasting or similar casting techniques.

- 42. (Withdrawn, Previously Presented) The method of claim 40, wherein said part is selected from the group consisting of cylinder heads, crankcases, heat-resistant safety components, air conditioner components and structural airplane components.
- 43. (Withdrawn, Previously Presented) The method of claim 40, wherein said part is selected from the group consisting of supersonic aircraft components, engine segments and pylons.